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TONER SEALING MECHANISM FOR BEARING

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ABSTRACT

PROBLEM TO BE SOLVED: To maintain excellent sealing performance for a long time and to make structure inexpensive and compact by disposing a toner sealing member consisting of a shaft sealing part, a housing sealing part, and a side surface coating part making a bearing get out of contact with toner and connecting and integrating both sealing parts on the bearing.

SOLUTION: A contact side on the inner surface of the bearing 1 with the toner is cylindrically hollowed out so as to form a space. In the space, the shaft sealing part 7 having an elastic lip 6 is arranged in an abutting state on a rotary shaft so that the edge of the lip 6 is faced to a toner housing side. The toner sealing member 2 is composed of the shaft sealing part 7, the side surface coating part 8 and the housing sealing part 9, attached so that the contact side surface of the bearing 1 with the toner may be coated, and a projected part 9a is formed on the housing sealing part 9. The housing part 9 is allowed to lie in a gap between the housing side plate and the outer periphery of the bearing 1 and the projected part 9a is fit in the recessed part of the housing side plate, so that airtightness is secured.

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